

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

aTD224

. I 2 I 33

United States
Department of
Agriculture

(copy 21)

Sta

Soil
Conservation
Service

Boise,
Idaho

Idaho Water Supply Outlook



May 1, 1987



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 97102
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97208
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Idaho Water Supply Outlook

and

Federal — State — Private Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
Washington, D.C.

Released by

Stanley N. Hobson
State Conservationist
Soil Conservation Service
Boise, Idaho

Prepared by

Gerald A. Beard
Data Collection Office Supervisor
Soil Conservation Service
Rm. 345, 304 N. 8th Street
Boise, Idaho 83702

In cooperation with

A. Kenneth Dunn
Director
State of Idaho
Department of Water Resources
Boise, Idaho

TABLE OF CONTENTS

STATE STREAMFLOW PROSPECTS MAP.....	1
STATE GENERAL OUTLOOK.....	2
BASIN OUTLOOK AND CONDITIONS	
UPPER COLUMBIA BASIN.....	4
CLEARWATER AND SALMON RIVER BASIN	6
WEISER, PAYETTE, AND BOISE RIVER BASIN	8
BIG WOOD, LITTLE WOOD, BIG LOST, AND LITTLE LOST RIVER BASIN	10
WILLOW CREEK, BLACKFOOT, UPPER SNAKE, AND PORTNEUF RIVER BASIN.....	12
SOUTHSIDE SNAKE RIVER BASIN.....	14
GREAT BASIN	16
SNOW DATA MEASUREMENTS	18

STREAMFLOW PROSPECTS IDAHO

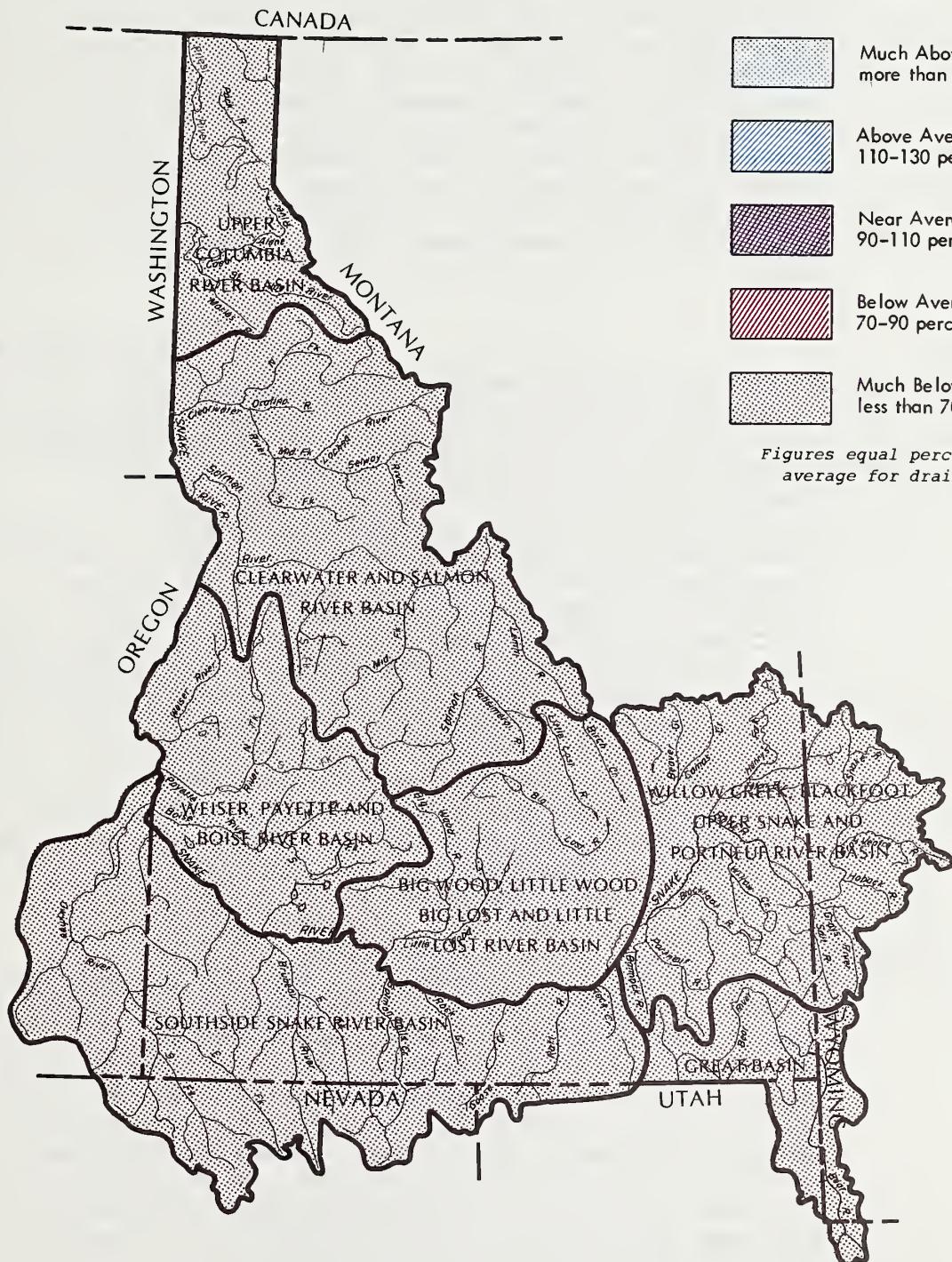
0 25 50 75 100 MI

0 50 100 150 KM

LEGEND

	Much Above Average more than 130 percent
	Above Average 110-130 percent
	Near Average 90-110 percent
	Below Average 70-90 percent
	Much Below Average less than 70 percent

*Figures equal percent of
average for drainage.*



GENERAL OUTLOOK

SUMMARY:

Snow surveys taken near May 1 indicate that record or near record low flows will occur on many streams across central and southern Idaho this spring and summer. Much above average temperatures and below normal precipitation during April has depleted much of the snowpack across southern Idaho. Many basins show little or no measurable snowpack left on May 1. Nearly all streams from the Clearwater drainage south reached their peak snowmelt flows by the end of April and are expected to recede rapidly as the remaining snowpack is depleted. May-Sept volume streamflow forecasts are near or at record low levels for most southern Idaho streams. Water will be in very short supply for the remainder of the season over much of Idaho.

SNOWPACK:

Idaho's snowpack conditions deteriorated significantly during April from the already low conditions reported a month ago. April brought below normal precipitation and much above average temperatures to the state, resulting in a continuation of the snowmelt that began in March. Lower elevation snowpacks and most middle elevation snowpacks are now depleted. Higher elevation snowpacks, which normally accumulate through late April or early May, began to melt in mid-April and are now well into the melt phase. Most snowpacks across southern Idaho will be completely melted by mid-May. Current snowpack conditions generally range from 39 to 69% of normal in the northern part of the state, from the Clearwater drainage north. In the southern part of the state, snowpacks generally range from 10-30% of normal, with most low elevation basins reporting no measurable snow.

PRECIPITATION:

April was another extremely dry month across most of Idaho, with many stations reporting near record low precipitation amounts and record high temperatures. The state averaged only 45% of normal precipitation for the month, with the southern half of the state reporting only about 21% of normal. Ketchum and Salmon were among the lowest reporting stations at 4% and 13% of normal precipitation, respectively. In contrast, precipitation in the Idaho panhandle area was near to slightly above normal for the month, with Kellogg reporting 115% of normal.

RESERVOIRS:

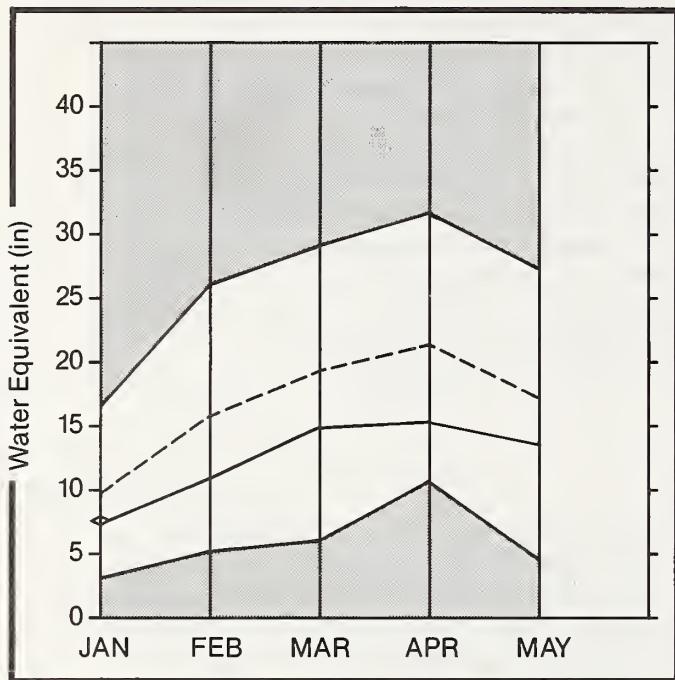
The low snowpack conditions prompted most reservoir operators to begin storing water early and reservoir storage across the state is generally above normal for May 1. Current reservoir storage ranges from a low of 60% of average in Lake Pend Oreille to 184% of normal in Brownlee Reservoir, with 23 key reservoirs across the state reporting a combined storage of 117% of normal. Most major reservoirs on the main stem of the Snake in eastern Idaho are nearly full or expected to fill soon. Some reservoirs on the smaller tributaries to the Snake (including Willow Creek and Blackfoot Reservoirs) are not expected to fill. In the central and southern part of the state, several major reservoir systems and many of the smaller local and private reservoirs will not fill. Among those not expected to fill are Crane Creek, Arrowrock, Magic, Carey Valley, and Owyhee Reservoirs. Most northern Idaho reservoirs are expected to fill.

STREAMFLOW:

Streamflows for the May-Sept period are forecast to be near or at record low levels over the southern half of the state. Forecasts in southern Idaho range from a low of 17% of normal for the Inflow to Magic Reservoir to 56% on the Henry's Fork near Ashton. Record low flows are predicted on the Little Wood, Big Lost, Little Lost, Henry's Fork, Teton, and Portneuf drainages. Streamflows in northern Idaho will be somewhat better, but are expected to be well below normal, ranging from 44% to 59%. Most streams across extreme southern Idaho reached their peak flows for the season in early March. Elsewhere, most streams reached peak flow conditions the last week of April. Streams are expected to recede rapidly as the last of the snowpack is depleted. Streamflows will be very low by mid to late June across much of Idaho and smaller streams could dry up by the middle or end of the summer. Users without the benefit of reservoir storage can expect water shortages early this summer. All water users are advised to stay in contact with their local irrigation district, reservoir managers or others who monitor and regulate water supplies for estimates of the water supply in their area.

Upper Columbia Basin

Mountain snowpack* (inches)



*Based on selected stations

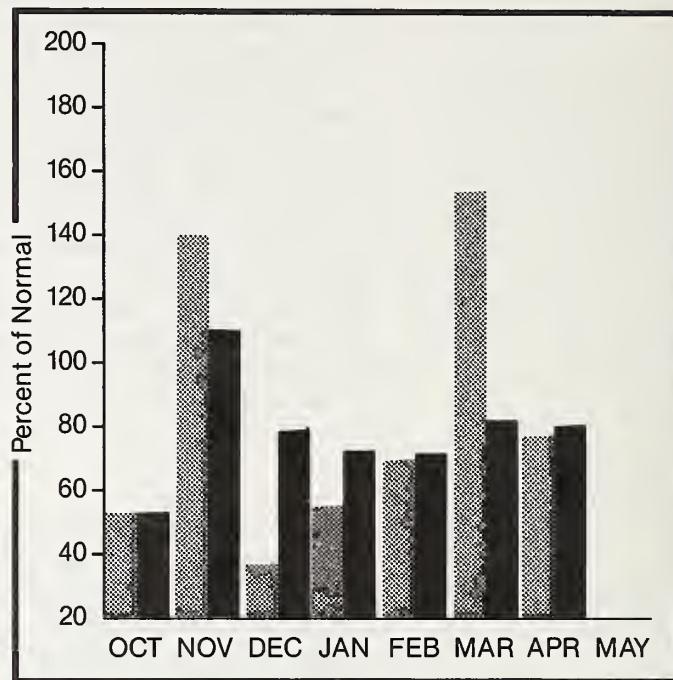
Maximum

Average

Minimum

Current

Precipitation* (percent of normal)



*Based on selected stations



Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Above average temperatures in April along with much earlier than normal snowmelt has significantly reduced the snowpack in the Upper Columbia watershed. The overall snowpack is 53% of normal as of May 1 - down from the 74% figure reported on April 1. Individual basin snowpacks range from 19% of normal on the Coeur d'Alene drainage to 58% on the Kootenai. April precipitation in the basin was 78% of average for valley stations, with higher elevation SNOTEL sites reporting 95%. May-July streamflow forecasts range from 48% on the St. Joe at Calder to 59% on the Priest River. Many streams in northern Idaho have already peaked due to the well above normal temperatures during the last week of April.

For more information contact your local Soil Conservation Service office.

UPPER COLUMBIA RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST	25 YR.	MOST	MOST	REAS.	REAS.	REAS.	REAS.
	PERIOD	Avg.	PROBABLE	PROBABLE	MAX.	MAX.	MIN.	MIN.
		(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(% AVG.)	(1000AF)	(% AVG.)
KOOTENAI at Leonia 2	MAY-SEP	7687.0	5850.0	76	7160.0	93	4470.0	58
	MAY-JUL	6586.0	4950.0	75	6070.0	92	3760.0	57
CLARK FORK at White Horse Rapids 2	MAY-SEP	11760.0	7180.0	61	9180.0	78	5180.0	44
	MAY-JUL	10540.0	6350.0	60	8140.0	77	4560.0	43
PEND OREILLE LAKE inflow 2	MAY-SEP	12960.0	7580.0	58	9650.0	74	5380.0	42
	MAY-JUL	11680.0	6750.0	58	8620.0	74	4760.0	41
PRIEST RIVER at Priest 2	MAY-SEP	715.0	420.0	59	585.0	82	260.0	36
SPOKANE at Post Falls 2	MAY-SEP	1957.0	1010.0	52	1480.0	76	520.0	27
	MAY-JUL	1859.0	950.0	51	1400.0	75	485.0	26
ST. JOE at Calder	MAY-SEP	1008.0	500.0	50	690.0	68	310.0	31
	MAY-JUL	938.0	450.0	48	625.0	67	270.0	29
COEUR D' ALENE at Enaville	MAY-SEP	543.0	280.0	52	430.0	79	130.0	24
	MAY-JUL	503.0	255.0	51	395.0	79	114.0	23

RESERVOIR STORAGE				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF	
	CAPACITY	THIS	LAST	AVG.			Avg'D	LAST YR.
HUNGRY HORSE	3451.0	2665.0	2729.0	2040.0	Kootenai ab Bonners Ferry	56	86	58
FLATHEAD LAKE	1791.0	944.8	944.8	929.0	Pend Oreille River	156	58	41
PEND OREILLE	1561.2	555.0	961.2	920.7	Clark Fork River	108	47	33
NOXON RAPIDS	335.0	329.1	328.5	186.3	Priest River	6	139	69
COEUR D'ALENE	291.2	281.2	289.3	317.2	Rathdrum Creek	2	68	33
PRIEST LAKE	97.7	99.8	53.8	74.4	Havden Lake	0	0	0
					Coeur d'Alene River	6	52	19
					St. Joe River	7	75	49
					Spokane River	13	70	39
					Palouse River	0	0	0

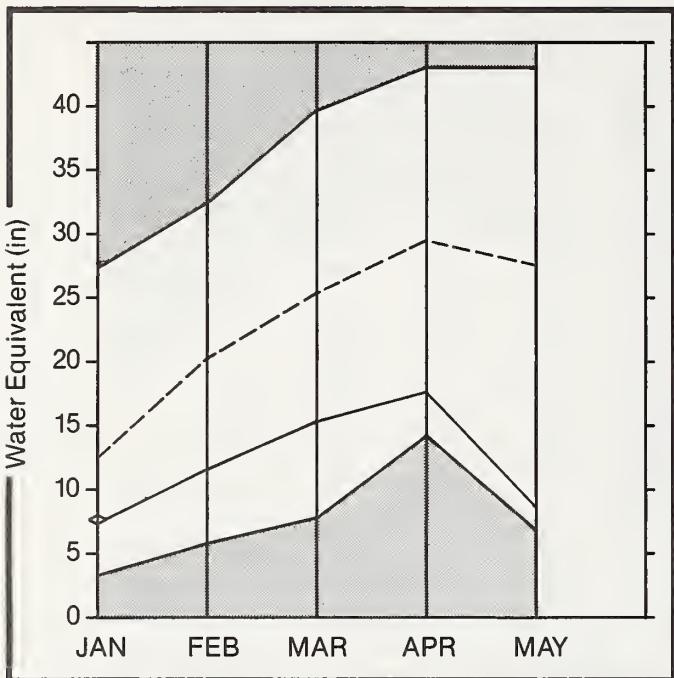
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Clearwater and Salmon River Basin

Mountain snowpack* (inches)



*Based on selected stations

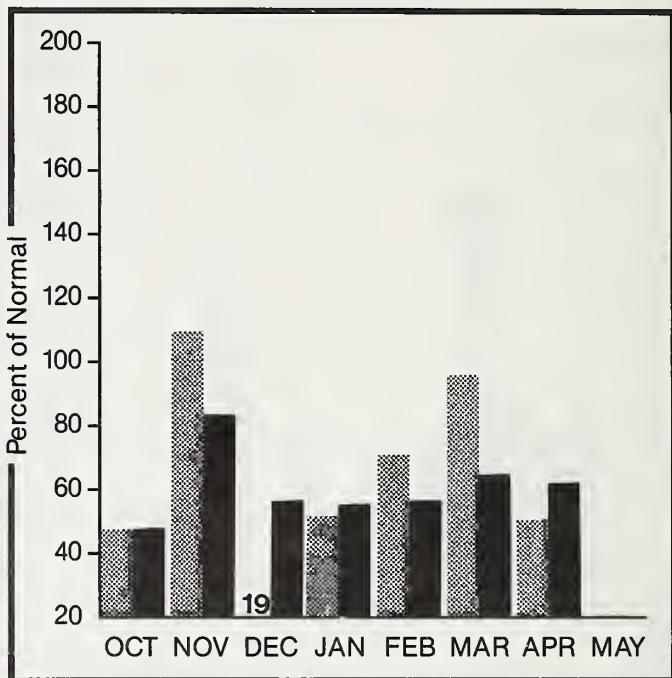
Maximum

Average

Minimum

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year-to-date precipitation

WATER SUPPLY OUTLOOK:

May 1 snow measurements show a significant decrease in the mountain snowpack since April 1. The watershed snowpack average is currently 35% of normal, as compared to 63% a month ago. Individual basin snowpack averages range from 45% on the N. Fork Clearwater to 21% on the Lemhi and Salmon basins. Valley precipitation was only 52% of normal across the basin, with high elevation SNOTEL sites reporting 74% of normal precipitation for April. Streamflow forecasts for the May-July period range from 44% of normal for Inflow to Dworshak Reservoir to 50% on the Clearwater at Orofino. Much earlier than normal snowmelt caused most streams to peak near the first of May. With the depletion of the remaining snowpack during early May, streams will recede much earlier than normal this year.

For more information contact your local Soil Conservation Service office.

CLEARWATER AND SALMON RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
CLEARWATER at Orofino	MAY-SEP	4318.0	2160.0	50	3150.0	73	1120.0	26
CLEARWATER at Spalding	MAY-SEP	6787.0	3120.0	46	4480.0	66	1760.0	26
	MAY-JUL	6325.0	2880.0	46	4140.0	65	1620.0	26
DWORSHAK RESERVOIR inflow	MAY-SEP	2366.0	1040.0	44	1460.0	62	615.0	26
	MAY-JUL	2179.0	950.0	44	1340.0	61	555.0	25
SALMON at Salmon	MAY-SEP	984.0	495.0	50	800.0	81	180.0	18
SALMON at Whitebird	MAY-SEP	6363.0	2900.0	46	3980.0	63	1750.0	28
	MAY-JUL	5678.0	2540.0	45	3500.0	62	1520.0	27

RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.				
DWORSHAK	3467.8	3324.8	2648.8	2276.0	North Fork Clearwater	14	66	45
					Lochsa River	5	58	41
					Selway River	6	53	40
					Clearwater River	21	62	43
					Salmon River ab Salmon	5	24	27
					Lemhi River	2	19	21
					Salmon River Total	19	25	21

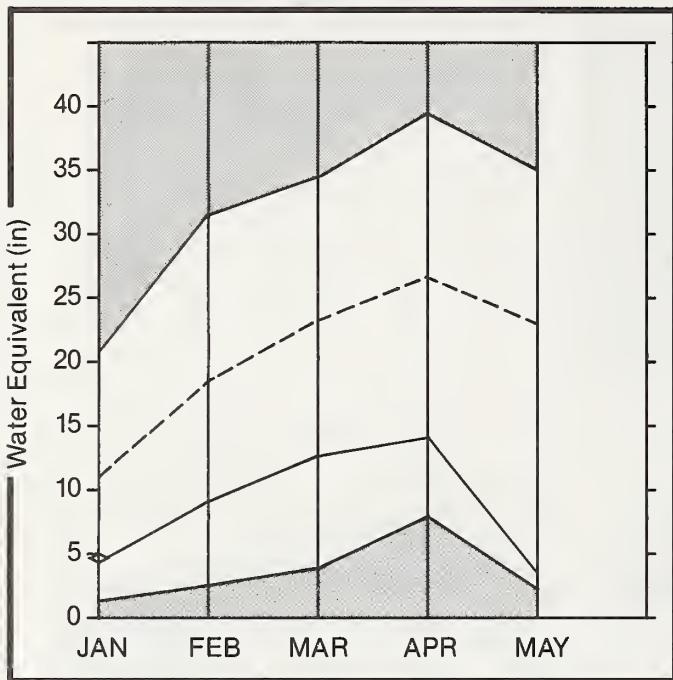
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Weiser, Payette, and Boise River Basin

Mountain snowpack* (inches)



*Based on selected stations

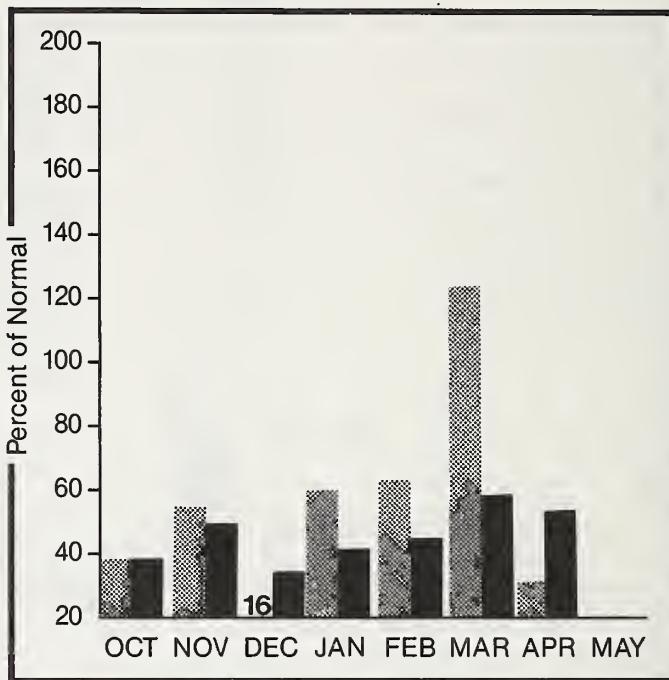
Maximum 

Average 

Minimum 

Current 

Precipitation* (percent of normal)



*Based on selected stations



Monthly precipitation

Year to date precipitation 

WATER SUPPLY OUTLOOK:

Above average temperatures and early snowmelt has reduced the half-normal snowpack measured on April 1 to only 21% of normal on May 1. Individual basin snowpack averages range from 16% on the Weiser drainage to 29% on the S. Fork Boise River. April precipitation was once again well below normal. Valley stations across the basin reported only 54% of normal rainfall, while automated SNOTEL mountain stations reported 64% of normal. Streamflow forecasts range from 26% of normal for the Boise at Boise to 37% on the N. Fk. Payette at Cascade. Much earlier than normal snowmelt caused many streams to peak on or before May 1. Reservoir storage in the 3 basins is currently 118% of average and 70% of capacity. Several reservoirs, including the Boise system and Crane Creek Reservoir, are not expected to fill this year, and irrigation water shortages can be expected. Irrigators without stored water should expect streams to recede to low baseflow conditions much earlier than normal this year.

WEISER, PAYETTE AND BOISE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
WEISER at Weiser	MAY-JUL	272.0	109.0	40	205.0	75	30.0	11
PAYETTE nr Horseshoe 2	MAY-SEP	1551.0	465.0	30	730.0	47	200.0	13
	MAY-JUL	1406.0	425.0	30	665.0	47	185.0	13
NF PAYETTE at Cascade 2	MAY-SEP	479.0	177.0	37	265.0	55	90.0	19
	MAY-JUL	441.0	163.0	37	245.0	56	84.0	19
NF PAYETTE nr Banks 2	MAY-SEP	601.0	220.0	37	335.0	56	105.0	17
	MAY-JUL	557.0	205.0	37	310.0	56	99.0	18
SF PAYETTE at Lowman	MAY-SEP	463.0	139.0	30	220.0	48	56.0	12
	MAY-JUL	404.0	121.0	30	194.0	48	48.0	12
DEADWOOD RESERVOIR inflow	MAY-JUL	129.0	41.0	32	63.0	49	19.0	15
BOISE RIVER nr Twin Springs	MAY-SEP	602.0	170.0	28	265.0	44	74.0	12
	MAY-JUL	544.0	152.0	28	240.0	44	65.0	12
SF BOISE at Anderson Dam 1	MAY-SEP	507.0	135.0	27	225.0	44	44.0	9
SF BOISE at Anderson Dam 1	MAY-JUL	466.0	125.0	27	210.0	45	41.0	9
BOISE RIVER nr Boise 1	MAY-SEP	1295.0	335.0	26	555.0	43	140.0	11
	MAY-JUL	1175.0	310.0	26	510.0	43	135.0	11

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	LAST YR. AVERAGE	
	1	1 THIS YEAR	1 LAST YEAR	1 AVG.	1	1	
MANN CREEK	11.3	11.3	11.3	10.4	Mann Creek	0	0
CASCADE	703.2	561.2	497.5	411.7	Weiser River	3	30
DEADWOOD	162.0	117.8	108.2	101.1	North Fork Payette	9	28
ANDERSON RANCH	464.2	416.4	394.3	327.2	South Fork Payette	7	25
ARROWROCK	286.6	130.8	220.6	214.9	Payette River Total	15	26
LUCKY PEAK	307.0	294.0	216.5	182.9	Middle & North Fork Boise	9	24
LAKE LOWELL (DEER FLAT)	177.0	140.1	167.2	169.8	South Fork Boise River	6	25
					Boise River Total	15	22
					Canyon Creek	0	0
							29

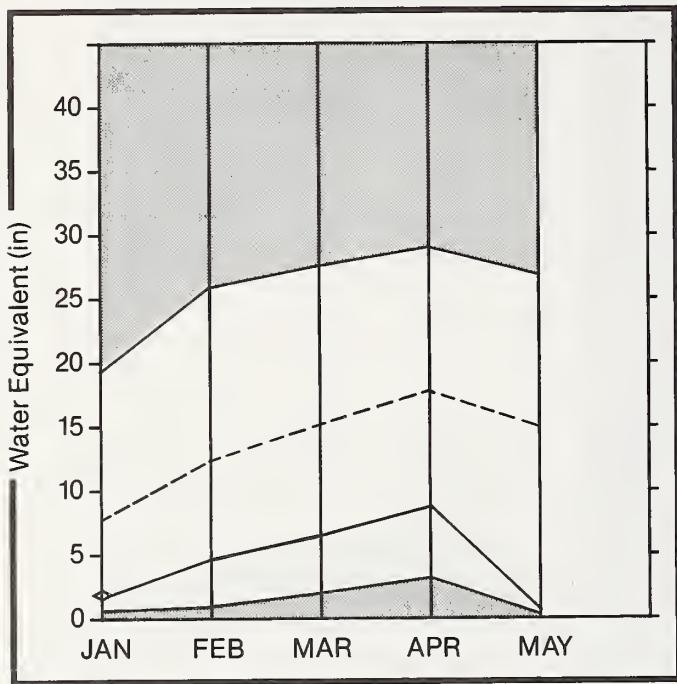
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Big Wood, Little Wood, Big Lost, and Little Lost River Basin

Mountain snowpack* (inches)



*Based on selected stations

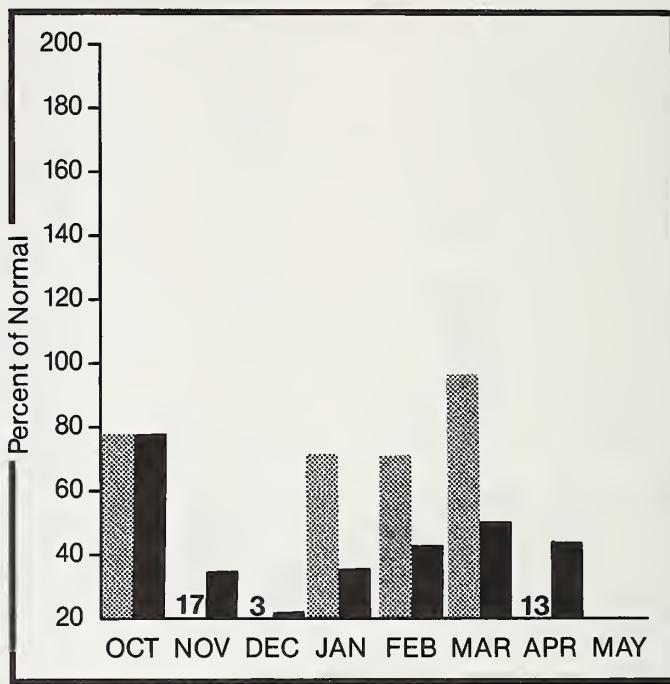
Maximum

Average

Minimum

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Well below normal precipitation was reported during April over the entire basin. Most higher elevation SNOTEL stations reported 30 to 45% of normal precipitation, while Ketchum received only 4% of average rainfall. Above normal temperatures continued the early snowmelt which began in March. Only the higher elevation snow courses in the Big Wood River drainage and in the headwater areas of the Big Lost River have measurable amounts of snow left. The remaining snowpack is expected to be depleted by May 15. Basin snowpacks currently range from 0% of normal on the Camas Creek drainage to only 16% in the Big Wood. Streamflows have reached their snowmelt peak and are expected to begin receding rapidly as the last of the snowpack is depleted. May-July streamflows are currently forecast to be near record low conditions, ranging from 17% to 39% of normal. Water users without storage facilities could face water shortages by early June.

BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
BIG WOOD nr Bellevue	MAY-SEP	190.0	38.0	20	87.0	46	17.0	9
	MAY-JUL	175.0	35.0	20	81.0	46	18.0	10
MAGIC RESERVOIR inflow	MAY-SEP	237.0	40.0	17	116.0	49	20.0	8
	MAY-JUL	221.0	38.0	17	109.0	49	15.0	7
LITTLE WOOD nr Carey	MAY-SEP	79.0	15.0	19	35.0	44	5.0	6
	MAY-JUL	71.0	13.5	19	31.0	44	4.0	6
BIG LOST at Howell Ranch	MAY-SEP	208.0	73.0	35	127.0	61	40.0	19
	MAY-JUL	181.0	63.0	35	110.0	61	36.0	20
BIG LOST nr Mackay 2	MAY-SEP	182.0	60.0	33	118.0	65	18.0	10
	MAY-JUL	148.0	49.0	33	96.0	65	15.0	10
LITTLE LOST b1 Wet Ck.	MAY-SEP	35.2	13.7	39	24.0	68	4.0	11
	MAY-JUL	27.8	10.8	39	19.0	68	3.0	11
LITTLE LOST nr Howe	MAY-SEP	38.0	14.4	38	26.0	68	3.0	8
	MAY-JUL	28.0	10.6	38	19.0	68	2.0	7

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			Avg'D	LAST YR.
MAGIC	191.5	147.9	186.4	167.7	Big Wood ab Magic	9	14	16
LITTLE WOOD	30.0	29.1	22.9	24.6	Camas Creek	2	0	0
CAREY VALLEY	14.4	7.2	13.9	---	Big Wood Total	10	14	16
MACKAY	44.4	40.6	38.2	34.2	Little Wood River	4	9	9
					Fish Creek	0	0	0
					Big Lost River	5	12	14
					Little Lost River	1	0	0

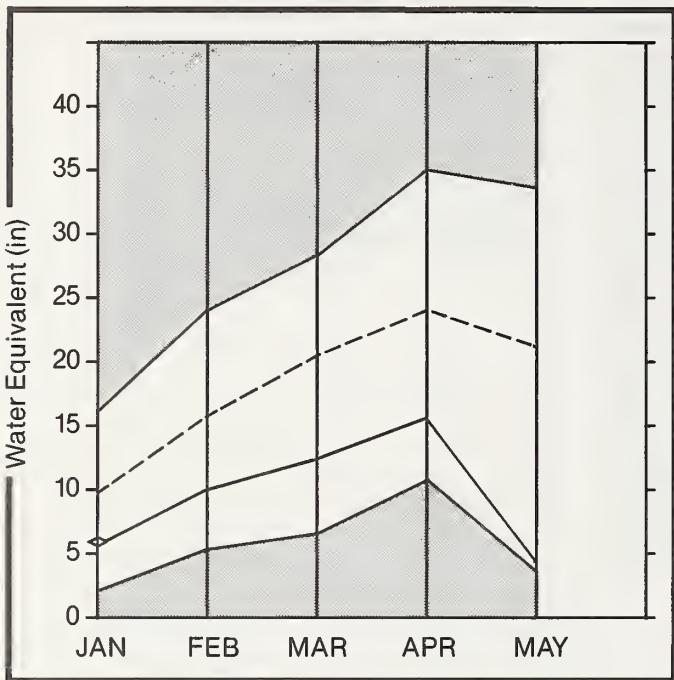
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Willow Creek, Blackfoot, Upper Snake, and Portneuf River Basin

Mountain snowpack* (inches)



*Based on selected stations

Maximum



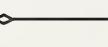
Average



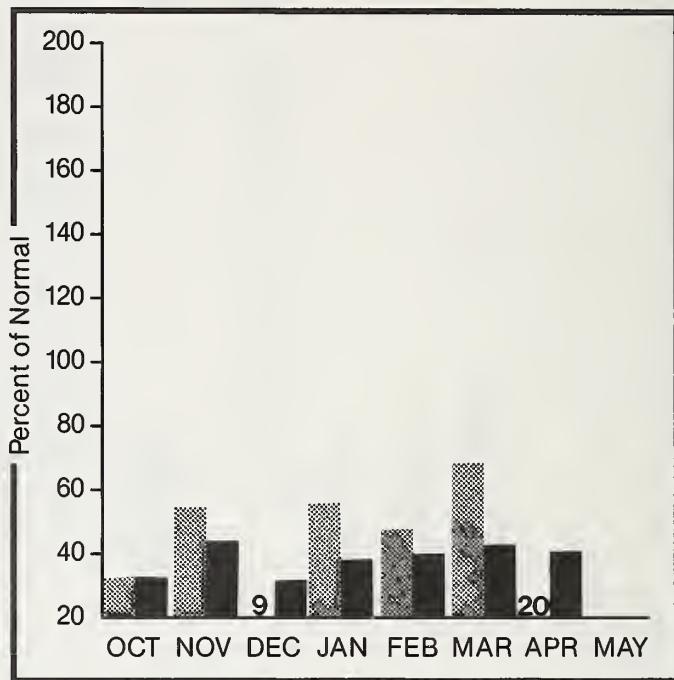
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Much above average temperatures and well below normal precipitation throughout the basin have depleted lower and middle elevation snowpacks, and significantly reduced higher elevation snow. No measurable snow remained at measuring stations in the Willow Creek, Blackfoot, and Portneuf River basins on May 1. Elsewhere, snowpacks generally ranged from 9% of normal on the Henry's Fork to 34% on the Snake River basin above Palisades Reservoir. The Gros Ventre River drainage in Wyoming reports 69% of normal snowpack. Most reservoirs on the main stem of the Snake and Henry's Fork are now full or expected to fill soon. Some reservoirs on the smaller tributaries, including Ririe and Blackfoot Reservoirs, are not expected to fill. Projected May-July streamflows are very low, ranging from 30% of normal for Inflow to Blackfoot Reservoir to 56% for the Henry's Fork near Ashton. Most of the streams reached peak flow conditions in late April and are expected to recede rapidly as the last of the snowpack is depleted.

WILLOW CREEK, BLACKFOOT, UPPER SNAKE AND PORTNEUF RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
HENRY'S FORK nr Ashton 2	MAY-SEP	639.0	360.0	56	410.0	64	310.0	49
	MAY-JUL	449.0	250.0	56	285.0	63	215.0	48
HENRYS FORK nr Rexburg 2	MAY-SEP	1389.0	725.0	52	945.0	68	515.0	37
	MAY-JUL	1055.0	550.0	52	720.0	68	390.0	37
FALLS RIVER nr Squirrel	APR-JUL	373.0	210.0	56	270.0	72	155.0	42
TETON RIVER ab S Leigh Ck	MAY-SEP	172.0	82.0	48	120.0	70	44.0	26
	MAY-JUL	123.2	59.0	48	86.0	70	32.0	26
TETON nr St. Anthony	MAY-SEP	434.0	230.0	53	275.0	63	180.0	41
	MAY-JUL	342.0	182.0	53	220.0	64	145.0	42
SNAKE AT Moran 1	APR-SEP	888.0	530.0	60	625.0	70	430.0	48
FALISADES LAKE inflow 1	APR-SEP	3852.0	1990.0	52	2680.0	70	1290.0	33
SNAKE nr Heise 2	MAY-SEP	3790.0	1720.0	45	2400.0	63	1040.0	27
	MAY-JUL	3173.0	1460.0	46	2030.0	64	890.0	28
SNAKE nr Blackfoot 2	MAY-SEP	5243.0	2620.0	50	3400.0	65	1890.0	36
	MAY-JUL	4152.0	2090.0	50	2710.0	65	1510.0	36
BLACKFOOT RESERVOIR INFLOW (SUM)	MAY-SEP	125.0	38.0	30	75.0	60	30.0	24
PORTNEUF at Topaz	MAY-SEP	78.0	31.0	40	54.0	69	8.0	10
	MAY-JUL	57.0	23.0	40	40.0	70	6.0	11

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF			
	YEAR	THIS YEAR	LAST AVG.	Avg'd	LAST YR.	AVERAGE		
ISLAND PARK	127.6	135.4	108.0	125.7	Camas-Beaver Creeks	0	0	0
GRASSY LAKE	15.2	14.4	13.5	11.5	Henrys Fork River	8	9	9
JACKSON LAKE	624.4	201.7	119.6	494.3	Teton River	7	20	24
FALISADES	1357.0	1350.9	797.4	871.8	Snake above Palisades	16	27	34
AMERICAN FALLS	1700.0	1601.8	1423.7	1542.9	Snake above Jackson Lake	2	16	18
BROWNLEE	975.3	948.5	574.2	515.9	Gros Ventre River	2	50	67
BLACKFOOT	NO REPORT			Greys River	2	34	42	
HENRY'S LAKE	90.4	87.0	---	81.8	Salt River	4	0	0
RIRIE	96.5	69.8	---	63.5	Willow Creek	6	0	0
				Blackfoot River	3	0	0	
				Portneuf River	0	0	0	
				Toponce Creek	0	0	0	

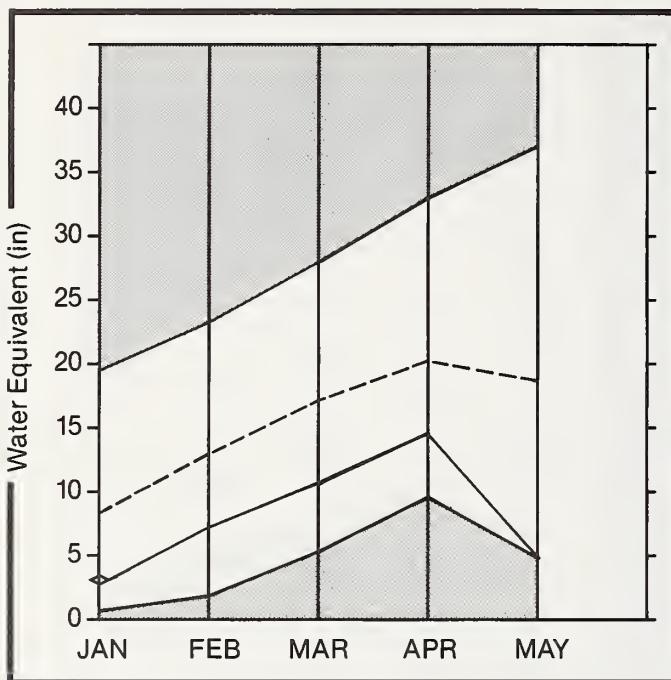
1 - Peas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Southside Snake River Basin

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



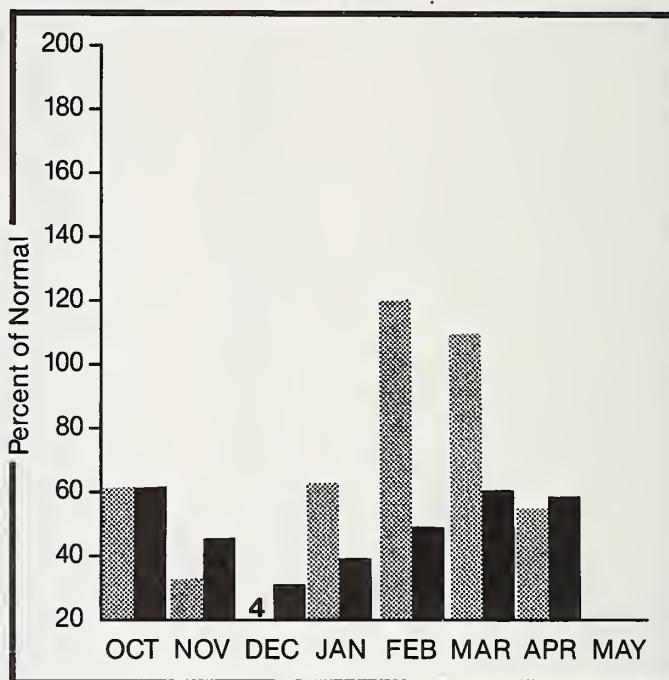
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations



Monthly precipitation



Year to date precipitation

WATER SUPPLY OUTLOOK:

April precipitation was much below normal throughout the basin with most higher elevation stations reporting only 25 to 45% of normal rainfall. Well above normal temperature conditions continued to deplete the snowpack which began melting in early March. Snowpack below 7000 feet is completely melted and only patchy snow remained between the 7000 and 8000 foot level on May 1. Currently, basin-wide snowpacks range from 12 to 33% of normal. The remaining snowpack is expected to be depleted by May 15. Most streamflows peaked in early March and streams are expected to recede rapidly as the last of the snow melts. May-July streamflows are forecast to be near record low conditions, ranging from 25% for Inflow to Lake Owyhee to 37% for Inflow to Oakley Reservoir.

For more information contact your local Soil Conservation Service office.

SOUTHSIDE SNAKE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
OAKLEY RESERVOIR inflow	MAY-SEP	25.0	9.2	37	17.0	68	4.0	16
	MAY-JUL	22.0	8.1	37	15.0	68	4.0	18
SALMON FALLS CK nr San Jacinto	MAY-SEP	67.0	23.0	34	47.0	70	6.0	9
	MAY-JUL	62.0	22.0	35	44.0	71	5.0	8
BRUNEAU nr Hot Springs	MAY-SEP	188.0	56.0	30	126.0	67	18.0	10
	MAY-JUL	176.0	53.0	30	118.0	67	18.0	10
OWYHEE RIVER nr Gold Creek 2	APR-JUL	27.8	8.0	29	23.0	83	3.0	11
OWYHEE RIVER nr Owyhee 2	APR-JUL	86.0	36.0	42	63.0	73	9.0	10
OWYHEE LAKE inflow 1	MAY-SEP	260.0	65.0	25	169.0	65	30.0	12
	MAY-JUL	232.0	60.0	26	153.0	66	23.0	10
OWYHEE at Rome 2	MAY-JUL	189.0	47.0	25	132.0	70	19.0	10

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		WATERSHED	NO. COURSES	THIS YEAR AS % OF		
	YEAR	THIS YEAR	LAST YEAR	AVG.	Avg'D	LAST YR.	AVERAGE	
OAKLEY	77.4	34.6	52.6	39.2	Raft River	1	19	31
SALMON FALLS	182.6	101.8	133.5	81.4	Goose-Trapper Creeks	1	23	31
OWYHEE	715.0	523.2	713.9	606.9	Salmon Falls Creek	8	25	17
					Bruneau River	4	38	33
					Owyhee River	5	17	12

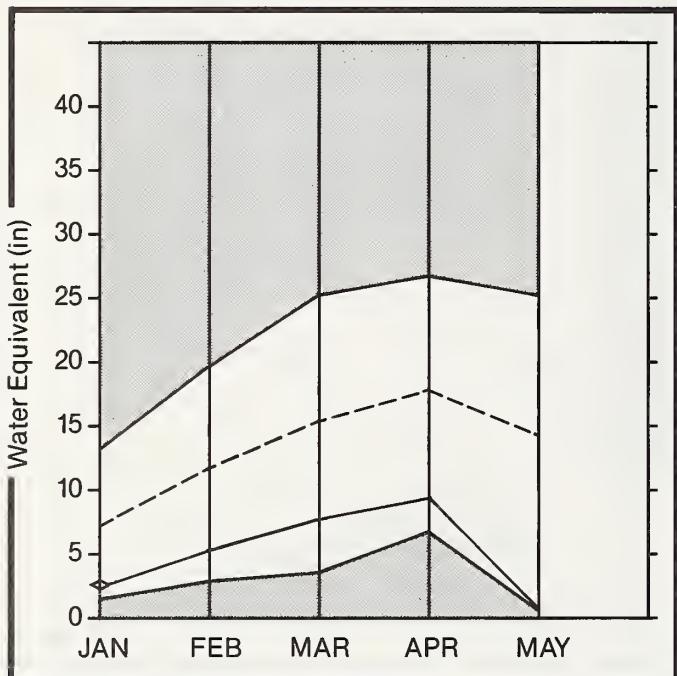
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Great Basin

Mountain snowpack* (inches)



*Based on selected stations

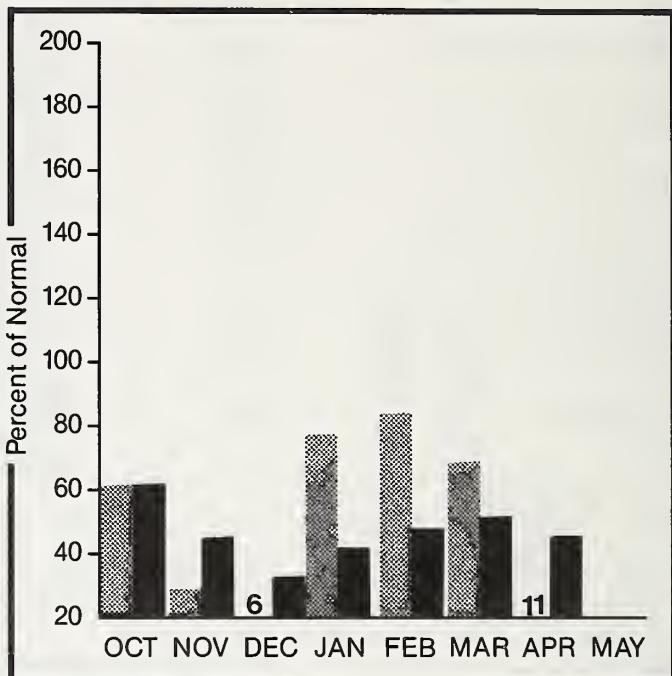
Maximum

Average

Minimum

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK*

April brought the 7th consecutive month of below normal precipitation over the basin. Mountain SNOTEL precipitation stations reported 40 to 70% of normal rainfall, while valley station received only 10 to 20% of normal amounts. Much above average temperatures prompted early snowmelt and snowpacks below 7500 feet are now depleted. Basin-wide snowpack conditions generally range from 0 to 10% of normal on the smaller tributaries to the Bear River in Idaho. The Upper Bear River basin in Utah reports 36% of average snowpack. Streams reached their snowmelt peak flows during April and are expected to recede rapidly as the remaining snowpack is depleted. May-July streamflows are forecast to be very low, ranging from 19 to 34% of normal. Water users without storage facilities could face water shortages early this summer as the streams recede to low baseflow conditions.

For more information contact your local Soil Conservation Service office.

GREAT BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
BEAR at Harer	APR-SEP	337.0	93.0	28	154.0	46	32.0	9
MONTPELIER CK nr Montpelier	MAY-SEP	11.3	2.2	19	6.0	53	1.0	9
CUB RIVER nr Preston	MAY-SEP	51.0	18.6	36	37.0	73	1.0	2
	MAY-JUL	46.0	15.8	34	32.0	70	1.0	2

RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.				
BEAR LAKE	1421.0	1118.9	1123.8	1059.0	Bear River (above Harer)	11	25	36
MONTPELIER CREEK	3.9	3.3	1.3	2.3	Montpelier Creek	6	6	10
					Mink Creek	2	1	2
					Cub River	1	25	43
					Malad River	0	0	0

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

SNOW DATA MEASUREMENTS

SNOW COURSE	ELATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-65	SNOW COURSE	ELATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-65
UPPER COLUMBIA BASIN													
							WATERSHED I						
ABOVE BURKE	4100	4/30/87	8	2.8	8.0	18.6	SAOOLE MTN PILLOW	7900	5/01/87	---	8.8	25.3	29.1
BEAR MOUNTAIN	5400	5/04/87	64	43.4	32.0	63.2	SAVAGE PASS	6170	4/30/87	23	11.4	20.6	27.9
BEAR MTN PILLOW	5400	5/01/87	---	49.2	35.8	64.5	SAVAGE PASS PILLOW	6170	5/01/87	---	9.1	23.0	29.6
BENTON MEADOW	2370	4/29/87	0	.0	.0	.0	SECESH SUMMIT	6520	4/29/87	13	6.2	28.1	34.5
BENTON SPRING	4920	4/29/87	4	1.6	2.8	15.4	SECESH SUMMIT PILLOW	6520	5/01/87	---	6.0	29.5	34.9
BOYER MOUNTAIN	5250	4/28/87	28	13.6	17.1	24.8	SHANGHAI SUMMIT	4570	4/30/87	0	.0	9.4	21.1
BREEZY SAOLE	5010	4/29/87	17	8.1	10.0	26.8	SHANGHAI SUM PILLOW	4570	5/01/87	---	.0	8.6	22.4
BUNCHGRASS MEADOWS	5000	4/28/87	43	18.8	15.6	29.2	SHERWIN	3200	4/29/87	0	.0	.0	4.6
BUNCHGRASS MOWPILLOW	5000	5/01/87	---	18.8	--	26.4	SHERWIN PILLOW	3200	5/01/87	---	.0	.0	6.8
COPPER RIOGE	4820	4/30/87	0	.0	.0	22.2	SLAG-A-MELT LAKE	8750	4/25/87	32	11.1	28.8	29.0
EAST RAGGED SAOLE	3740	5/01/87	0	.0	3.0	16.6	SOUAW MEAOOW	5900	4/29/87	14	7.2	24.6	34.8
FOURTY-NINE MEADOWS	4830	4/29/87	9	4.2	8.8	25.1	TWIN LAKES	6510	4/30/87	48	23.8	33.8	45.2
FOURTH OF JULY SUM	3200	5/01/87	0	.0	--	.4	TWIN LAKES PILLOW	6400	5/01/87	---	22.3	31.0	42.6
GRANITE PEAK	6000	4/29/87	55	24.9	29.3	46.1	VIENNA MINE	8960	4/29/87	35	15.4	51.3	39.1
HUMBOLOT GULCH	4250	4/30/87	0	.0	4.3	13.0	VIENNA MINE PILLOW	8960	5/01/87	---	12.8	46.0	40.3
HUMBOLOT GLCH PILLOW	4250	5/01/87	---	.0	1.4	10.1	WEST BRANCH	5560	4/28/87	0	.0	11.0	18.6
LOOKOUT	5140	4/30/87	28	13.6	21.6	32.7	WEST BRANCH PILLOW	5560	5/01/87	---	.0	9.3	20.2
LOOKOUT PILLOW	5140	5/01/87	---	11.3	22.8	31.3							
LOST LAKE	6110	4/29/87	77	35.5	42.9	60.1							
LOST LAKE PILLOW	6110	5/01/87	---	41.6	14.8	66.8							
LOWER SANOS CREEK	3120	4/30/87	7	2.8	6.0	16.3							
MOSQUITO RIOGE	5200	5/01/87	---	18.2E	--	36.6							
MOSQUITO PILLOW	5200	5/01/87	---	17.5	20.5	37.0							
RAGGED RIOGE	3330	5/01/87	0	.0	--	--							
SAGE CREEK SAOLE	4080	4/30/87	0	.0	--	--							
SCHWEITZER BASIN	6090	4/29/87	76	38.8	32.0	51.1							
SCHWEITZER BN PILLOW	6090	5/01/87	---	40.3	35.2	53.3							
SCHWEITZER BOWL	4800	5/01/87	---	13.5E	.0	24.2							
SCHWEITZER R10GE	6200	4/29/87	80	43.0	32.1	48.8							
SHERWIN	3200	4/29/87	0	.0	.0	4.6							
SHERWIN PILLOW	3200	5/01/87	---	.0	.0	6.8							
SKITWISH R10GE	5110	4/30/87	13	6.4	9.8	28.8							
SMITH CREEK	4800	4/28/87	63	30.4	24.6	45.3							
SUNSET	5540	5/01/87	---	18.0E	--	32.8							
SUNSET PILLOW	5540	5/01/87	---	19.7	26.0	35.1							
TWIN SP1R1T 01V1OE	3480	5/01/87	0	.0	.0	--							
CLEARWATER AND SALMON BASINS													
							WATERSHED II						
							WEISER, PAYETTE AND BOISE BASINS						
BANNER SUMMIT	7040	4/29/87	20	7.9	29.9	30.0	ATLANTA SUMMIT	7600	4/29/87	26	10.3	40.2	35.6
BANNER SUMMIT PILLOW	7040	5/01/87	---	5.9	26.8	28.2	ATLANTA SUM PILLOW	7580	5/01/87	---	8.3	39.2	33.1
BEAR BASIN	5350	4/29/87	0	11.2	17.6	19.0	ATLANTA TOWNSITE	5370	4/29/87	0	.0	.0	--
BEAR BASIN PILLOW	5350	5/01/87	---	.0	10.8	19.0	BANNER SUMMIT	7040	4/29/87	20	7.9	29.9	30.0
BIG CREEK SUMMIT	6580	4/30/87	20	9.4	36.8	37.6	BANNER SUMMIT PILLOW	7040	5/01/87	---	5.9	26.8	28.2
BIG CREEK SUM PILLOW	6580	5/01/87	---	10.9	40.8	33.9	BAO BEAR	4940	5/01/87	0	.0	.0	5.0
BOULDER CREEK	5440	4/28/87	0	.0	1.8	14.6	BEAR BASIN	5350	4/29/87	0	.0	11.2	17.6
BREEZY SAOLE	5010	4/29/87	17	8.1	10.0	26.9	BEAR SAOLE PILLOW	6180	5/01/87	---	.0E	--	25.6
BRUNO CREEK	7920	5/01/87	0	.0	--	16.3	BEAR SAOLE	6180	5/01/87	---	.0E	--	11.2
BUCK MEAOOWS	5650	4/30/87	23	10.4	23.5	27.1	BENNETT MOUNTAIN	6560	5/01/87	---	.0E	--	14.0
CAYUSE AIRSTRIP	3500	4/30/87	0	.0	.0	.7	BENNETT MTN PILLOW	6560	5/01/87	---	.0	--	14.0
COOL CREEK	6250	4/30/87	71	30.1	41.5	53.2	B16 CREEK SUMMIT	6580	4/30/87	20	9.4	38.8	37.6
COOL CREEK PILLOW	6280	5/01/87	---	32.1	43.5	52.0	B16 CREEK SUM PILLOW	6580	5/01/87	---	10.9	40.8	33.9
COOLWATER MOUNTAIN	6030	4/30/87	42	18.5	32.3	35.8	BOGUS BASIN	6340	4/29/87	0	.0	20.7	22.5
CRATER MEAOOWS	5960	4/30/87	43	24.4	33.8	47.0	BOGUS BASIN ROAO	5540	4/29/87	0	.0	.0	.2
CRATER MOWS PILLOW	5960	5/01/87	---	18.3	34.1	49.9	BOULDER CREEK	5440	4/26/87	0	.0	1.8	14.6
CROOKED FORK	3610	4/30/87	0	.0	.0	2.6	BRUNOAGE RESV PILLOW	4500	5/01/87	---	2.2	--	--
DEAOWOOD SUMMIT	6860	4/29/87	35	15.9	45.9	45.8	COUCH SUMMIT	6840	5/03/87	0	.0	10.9	14.2
DEAOWOOD SUM PILLOW	6860	5/01/87	---	15.3	47.1	55.9	COZY COVE	5380	4/29/87	0	.0	.0	8.7
ELK BUTTE	5550	4/29/87	6	2.8	17.3	31.5	COZY COVE PILLOW	5380	5/01/87	---	.0	.0	11.5
ELK BUTTE PILLOW	5550	5/01/87	---	12.9	25.5	36.7	CRAWFORD R.S.	4860	4/30/87	0	.0	.0	.2
FISH LAKE AIRSTRIP	5650	4/30/87	41	19.8	28.2	40.2	DEAOWOOD GULCH	5600	4/30/87	5	2.2	5.1	10.6
FOURTY-NINE MEAOOWS	4830	4/29/87	9	4.2	8.6	25.1	DEAOWOOD AIRSTRIP	5360	4/29/87	0	.0	.0	.0
GALENA SUMMIT	8780	5/02/87	16	4.4	27.4	25.8	DEAOWOOD SUMMIT	6860	4/29/87	35	15.9	45.9	45.9
GALENA SUMMIT PILLOW	8780	5/01/87	---	4.7	24.9	21.2	DEAOWOOD SUM PILLOW	6860	5/01/87	---	15.3	47.1	55.9
G1880NS PASS	7100	4/28/87	15	5.8	23.9	23.9	DOLLARHIOE SUMMIT	8420	4/29/87	20	7.1	30.8	25.0
GOAT LAKE	6500	4/30/87	61	28.7	42.2	50.9	DOLLARHIOE SM PILLOW	8420	5/01/87	---	8.3	35.2	25.5
GRANITE PEAK	6000	4/29/87	55	24.9	29.3	46.1	GRAHAM GUARD STATION	5690	4/29/87	0	.0	.0	6.9
HEMLOCK BUTTE	5810	4/30/87	34	16.8	34.1	50.7	GRAHAM G.S. PILLOW	5690	5/01/87	---	.0	.0	.0
HEMLOCK BUTTE PILLOW	5810	5/01/87	---	19.4	38.3	53.0	JACKSON PEAK	7070	4/29/87	22	8.7	35.6	31.4
H00000 BASIN	6050	5/01/87	63	31.1	45.9	53.2	JACKSON PEAK PILLOW	7070	5/01/87	---	9.1	38.9	32.2
H00000 BASIN PILLOW	6050	5/01/87	---	29.0	40.1	49.6	LAKE FORK	5290	4/29/87	0	.0	7.1	12.7
H00000 CREEK	5900	5/01/87	54	27.2	36.8	49.3	MOORES CREEK SUMMIT	6100	4/30/87	9	3.8	37.2	31.7
LEMHI1 PASS	7480	4/26/87	3	.8	7.5	7.2	MOORES CK SUM PILLOW	6100	5/01/87	---	4.4	43.5	34.3
LEMHI1 RIOGE	8100	4/26/87	10	2.8	11.8	10.0	PRAIRIE	4800	5/01/87	---	.0E	--	.0
LEMHI1 RIOGE PILLOW	8100	5/01/87	---	.8	13.0	10.5	PRAIRIE PILLOW	4800	5/01/87	---	.0	.0	.0
LOLO PASS	5240	4/30/87	11	5.4	14.0	28.3	ROAO CREEK	5380	4/29/87	0	.0	.0	.5
LOLO PASS PILLOW	5240	5/01/87	---	4.3	16.9	29.5	SECESH SUMMIT	6520	4/29/87	13	6.2	28.1	34.5
LOST HORSE	5940	4/30/87	31	14.6	25.5	33.9	SECESH SUMMIT PILLOW	6520	5/01/87	---	6.0	29.5	34.9
LOST LAKE	6110	4/29/87	77	35.5	42.9	60.1	SOL01ER R.S.	5740	5/03/87	0	.0	.0	1.4
LOST LAKE PILLOW	6110	5/01/87	---	41.6	14.8	66.8	SOL01ER R.S. PILLOW	4330	5/01/87	---	.0	.0	--
MEAOW LAKE	9150	5/01/87	---	5.0E	--	20.9	SQUAW FLAT	6240	5/01/87	18	8.8	17.0	21.1
MEAOW LAKE PILLOW	9150	5/01/87	---	4.7	--	21.2	SQUAW FLAT PILLOW	6240	5/01/87	---	.0	13.1	19.1
MILL CREEK SUMMIT	8800	4/29/87	23	8.0	25.9	24.4	SEUAW MEAOOW	5900	4/29/87	14	7.2	24.6	34.8
MOONSHINE1 PILLOW	7440	5/01/87	---	.0	8.5	10.6	TRINITY MOUNTAIN	7770	4/29/87	32	14.0	52.8	43.7
MOOSE CREEK	6200	4/30/87	0	.0	11.4	14.4	TRINITY MTN. PILLOW	7770	5/01/87	---	13.2	54.2	45.4
MOOSE CR PILLOW	6200	5/01/87	---	.0	--	14.4	VIENNA MINE	8960	4/29/87	35	15.4	51.3	39.1
MORGAN CREEK	7600	4/29/87	0	.0	12.5	12.5	VIENNA MINE PILLOW	8960	5/01/87	---	12.8	46.0	40.3
MORGAN CREEK PILLOW	7600	5/01/87	---	.0	9.1	11.6	WEST BRANCH	5560	4/26/87	0	.0	11.0	18.6
MOUNTAIN MEAOOWS	6360	4/30/87	5	1.7	15.7	23.5	WEST BRANCH PILLOW	5560	5/01/87	---	.0	.0	.0
MOUNTAIN MOWS PILLOW	6360	5/01/87	---	8.1	21.5	27.4							
NEZ PERCE PASS	6570	4/2											

SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST BASINS													
WATERSHED IV													
BEAR CANYON	7900	4/29/87	9	3.3	21.6	17.9	PHILLIPS BENCH PILL.	8200	5/01/87	---	8.4	37.8	30.2
BEAR CANYON PILLOW	7900	5/01/87	---	4.1	24.6	17.2	PINE CREEK PASS	6810	4/29/87	0	.0	9.4	12.7
BENNETT MOUNTAIN	6560	5/01/87	---	.0E	--	11.2	POISON MEADOWS	8500	4/26/87	36	14.3	42.6	30.8
BENNETT MTN PILLOW	6560	5/01/87	---	.0	--	14.0	PUTNAM	7220	4/28/87	0	.0	12.0	--
COPPER BASIN	7640	4/29/87	0	.0	7.7	7.5	SALT RIVER SUMMIT	7700	4/29/87	0	.0	20.2	13.9
COUCH SUMMIT	6640	5/03/87	0	.0	10.9	14.2	SALT RIVER PILLOW	7700	5/01/87	---	.0	19.6	13.9
DOLLARHIDE SUMMIT	8420	4/29/87	20	7.1	30.8	25.0	SEGEWICK PEAK	7850	4/28/87	1	.3	27.2	--
DOLLARHIDE SM PILLOW	8420	5/01/87	---	8.3	35.2	25.5	SHEEP MOUNTAIN	6570	5/01/87	0	.0	.8	9.5
FISHPOLE LAKE	9300	4/29/87	16	6.9	36.1	23.6	SHEEP MTN PILLOW	6570	5/01/87	---	.0	3.9	10.3
GALENA	7440	5/01/87	---	.0E	17.6	14.5	SLUG CREEK DIVIDE	7230	4/28/87	0	.0	19.3	13.5
GALENA PILLOW	7440	5/01/87	---	1.6	20.1	20.1	SLUG CREEK OVO PILLOW	7230	5/01/87	---	.0	23.6	16.4
GALENA NEW	7470	5/02/87	5	1.0	21.9	20.7	SNOW KING MTN	7650	4/27/87	0	.0	16.4	13.6
GALENA SUMMIT	8780	5/02/87	16	4.4	27.4	25.8	SOMSEN RANCH	6840	4/24/87	0	.0	13.9	12.2
GALENA SUMMIT PILLOW	8780	5/01/87	---	4.7	24.9	21.2	SOMSEN RANCH PILLOW	6800	5/01/87	---	.0	9.1	9.8
GARFIELD R.S.	6560	4/29/87	0	.0	.0	2.3	SPRING CRK. PILLOW	9000	5/01/87	---	II.5	49.8	26.5
GARFIELD R.S. PILLOW	6560	5/01/87	---	.0	.0	5.5	STATE LINE	6660	4/29/87	0	.0	9.5	9.1
GRAHAM RANCH	6270	5/02/87	0	.0	5.9	9.1	TETON PASS W.S.	7740	4/30/87	30	13.1	39.4	28.3
HILTS CREEK PILLOW	8000	5/01/87	---	.5	13.9	11.1	TEX CREEK	6650	5/01/87	0	.0E	.0	--
HYNOMAN CREEK	7440	4/29/87	0	.0	10.6	10.7	TOGWOTEE PASS	9580	4/29/87	46	19.8	38.2	33.0
HYNOMAN PILLOW	7440	5/01/87	---	.0	11.0	11.1	TOGWOTEE PASS PILLOW	9580	5/01/87	---	17.6	34.1	27.6
LOST-WOOD DIVIOE	7900	4/29/87	3	1.0	26.0	22.4	TOPONCE	6160	4/28/87	0	.0	.0	--
LOST-WOOD OVO PILLOW	7900	5/01/87	---	.0	29.5	26.3	TWITCHELL CANYON	6300	5/01/87	0	.0	--	--
MASCOT MINE	7780	4/29/87	0	.0	16.6	15.3	TWO OCEAN PILLOW	9160	5/01/87	---	16.4	--	32.5
MOONSHINE PILLOW	7440	5/01/87	---	.0	8.5	10.6	VALLEY VIEW	6680	5/01/87	0	.0	5.4	12.8
MULDOON	6320	4/29/87	0	.0	.0	.5	WHISKEY CREEK	6800	4/29/87	0	.0	18.4	18.7
SOLOIER R.S.	5740	5/03/87	0	.0	.0	1.4	WHITE ELEPHANT	7710	5/01/87	---	.0E	30.9	25.3
SOLOIER R.S. PILLOW	4330	5/01/87	---	.0	.0	--	WHITE ELEPHANT PILL	7710	5/01/87	---	2.6	36.6	27.2
STICKNEY MILL	7430	4/29/87	0	.0	3.6	6.0	WILHORSE DIVIOE	6490	5/01/87	---	.0E	--	12.1
STICKNEY MILL PILLOW	7430	5/01/87	---	.0	2.5	.0	WILHORSE OVO PILLOW	6490	5/01/87	---	.0	11.3	.0
SWEDE PEAK	7640	4/29/87	0	.0	15.4	15.6	WILLOW CREEK	8450	4/29/87	12	5.0	--	--
SWEDE PEAK PILLOW	7640	5/01/87	---	.0	12.7	15.0	WILLOW CRK PILLOW	8450	5/01/87	---	6.1	42.5	28.1
VIENNA MINE	8960	4/29/87	35	15.4	51.3	39.1							
VIENNA MINE PILLOW	8960	5/01/87	---	12.8	46.0	40.3							
WET CREEK SUMMIT	7680	4/30/87	0	.0	9.0	7.4							
SOUTHSHIOE SNAKE BASIN													
WATERSHED VI													
BAOGER GULCH	6660	4/25/87	0	.0	4.1	--							
BEAR CREEK	7800	5/01/87	---	3.0E	18.0	21.5							
BEAR CK SNTEL	7800	5/01/87	---	2.3	18.9	23.2							
BOSTETTER R.S.	7500	4/25/87	I2	4.2	18.4	13.5							
BOSTETTER RS PILLOW	7500	5/01/87	---	.0	10.6	11.7							
OEADLINE	7400	4/29/87	0	.0	20.3	--							
OEADLINE SOUTH	7450	4/29/87	0	.0	16.6	25.1							
GOAT CREEK	8800	4/29/87	20	7.3	20.4	20.9							
HOWELL CANYON	7980	4/25/87	I8	7.2	38.4	23.5							
HOWELL CANYON PILLOW	7980	5/01/87	---	.0	36.0	20.3							
HUMMINGBIRD SPRINGS	8950	5/01/87	---	13.1E	--	27.7							
JACK CREEK #2,UPPER	7280	5/01/87	---	.3S	--	14.6							
LANGFORD FLAT CREEK	5980	4/29/87	0	.0	.0	.9							
MAGIC MOUNTAIN	6880	4/29/87	0	.0	13.1	18.0							
MUD FLAT	5730	5/01/87	---	.0E	--	.2							
MUD FLAT PILLOW	5730	5/01/87	---	.0	--	.0							
POLE CREEK R.S.	8330	4/29/87	29	11.8	22.6	23.4							
SEVENTYSIX CK SNTEL	7100	5/01/87	---	.05	--	--							
SHOSHONE BASIN	5810	5/01/87	---	.0E	--	1.0							
SOUTH MOUNTAIN	6500	4/28/87	0	.0	7.0	8.2							
SOUTH MTN PILLOW	6500	5/01/87	---	.0	13.1	7.2							
GREAT BASIN													
WATERSHED VII													
BURT'S-MILLER RANCH	7900	4/23/87	0	.0	.0	2.4							
CUB RIVER R.S.	5450	4/23/87	0	.0	.0	--							
ORY 8READ PONO	8350	4/23/87	3	1.0	24.2	18.2							
EMIGRANT SUMMIT	7390	4/29/87	I1	.5	36.9	23.6							
EMIGRANT SUM PILLOW	7390	5/01/87	---	.2	--	27.3							
EMIGRATION CANYON	6500	4/29/87	0	.0	.0	--							
FRANKLIN BASIN	8020	4/23/87	26	8.9	36.1	20.7							
FRANKLIN 8SN PILLOW	8040	5/01/87	27	0	40.9	28.0							
GARDEN CITY SUMMIT	7600	4/23/87	I2	4.2	23.5	17.2							
GIVEOUT	6860	4/28/87	0	.0	13.7	7.1							
GIVEOUT PILLOW	6840	5/01/87	---	.0	9.2	6.0							
GIVEOUT NEW	6930	5/01/87	---	0.0E	7.8	4.4							
HAYDEN FORK	9400	4/23/87	25	8.5	22.4	16.1							
KELLEY RANGER STA.	8180	4/27/87	20	6.6	30.4	18.1							
KELLEY R.S. PILLOW	8180	5/01/87	---	.0	27.9	15.6							
LITTLE BEAVER	6790	4/28/87	0	.0	16.3	9.9							
LOWER HOME CANYON	7640	4/28/87	0	.0	16.3	11.5							
MONTE CRISTO R.S.	8960	4/23/87	25	9.8	33.0	26.5							
MONTPELIER CREEK	6540	4/28/87	0	.0	.0	.0							
OXFORD SPRING	6740	5/01/87	---	.0	.0	5.8							
OXFORD SPRING PILLOW	6740	5/01/87	---	.0	2.4	6.7							
SLUG CREEK DIVIDE	7230	4/28/87	0	.0	19.3	13.5							
SLUG CK OVO PILLOW	7230	5/01/87	---	.0	23.6	16.4							
STILLWATER CAMP	8550	4/23/87	8	2.1	10.0	8.4							
STRAWBERRY CREEK	5820	4/29/87	0	.0	.0	3.2							
UPPER HOME CANYON	8560	4/28/87	21	6.7	40.5	23.6							
WILLOW FLAT	6070	4/23/87	0	.0	--	5.9							

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State	Idaho Department of Water Resources Soil and Water Conservation Districts of Idaho
Federal	U.S. Department of Agriculture Forest Service U.S. Department of Army Corps of Engineers U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bureau of Reclamation Geological Survey, Water Resources Division Shoshone-Bannock Tribal Council
Local	Big Lost River Irrigation District Big Wood Irrigation Company Boise Project Board of Control Idaho Water District #01 Lewiston Orchards Irrigation District Little Wood River Irrigation District North Board of Control — Owyhee Project Salmon Falls Irrigation Company South Board of Control — Owyhee Project
Private	Cyprus Mining Company FMC Corporation Idaho Power Company Le Bois Resort Washington Water Power Company

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

THIRD CLASS BULK RATE
POSTAGE AND FEES PAID
USDA - SCS
PERMIT NO. G-267

THIRD CLASS MAIL

**Idaho
Water Supply Outlook**

and

Federal — State — Private
Cooperative Snow Surveys



SOIL CONSERVATION SERVICE